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Page : 2

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After entry of the amendments made herein, the claims under consideration in this application will read as follows.

1. (Twice amended) An isolated DNA comprising:

(a) a nucleic acid sequence that encodes a polypeptide with the ability to co-stimulate a T cell, wherein the polypeptide is an amino acid sequence consisting of SEQ ID NO:1 or SEQ ID NO:3; or

(b) the complement of the nucleic acid sequence.

4. The DNA of claim 1, wherein the nucleic acid sequence is a nucleotide sequence consisting of SEQ ID NO:2.

5. The DNA of claim 1, wherein the nucleic acid sequence is a nucleotide sequence consisting of SEQ ID NO:4.

11. A vector comprising the DNA of claim 1.

12. The vector of claim 11, wherein the nucleic acid sequence is operably linked to a regulatory element which allows expression of said nucleic acid sequence in a cell.

13. A cell comprising the vector of claim 11.

36. A cell comprising the vector of claim 12.

37. A method of producing a polypeptide that co-stimulates a T cell, the method comprising culturing the cell of claim 36 and purifying the polypeptide from the culture.

45. (Amended) An isolated DNA comprising:

(a) a nucleic acid sequence that encodes a polypeptide with the ability to co-stimulate a T cell, wherein the nucleic acid sequence is at least 50 nucleotides long and wherein the

polypeptide consists of a functional fragment of an amino acid sequence consisting of SEQ ID NO:1 or SEQ ID NO:3; or

(b) the complement of the nucleic acid sequence.

46. The DNA of claim 45, wherein the functional fragment consists of (i) SEQ ID NO: 1 but lacking amino acid residues 1-22 of SEQ ID NO:1 or (ii) SEQ ID NO:3 but lacking amino acid residues 1-22 of SEQ ID NO:3.

47. A vector comprising the DNA of claim 45.

48. The vector of claim 47, wherein the nucleic acid sequence is operably linked to a regulatory element which allows expression of said nucleic acid sequence in a cell.

49. A cell comprising the vector of claim 47.

50. A cell comprising the vector of claim 48.

51. A method of producing a polypeptide that co-stimulates a T cell, the method comprising culturing the cell of claim 50 and purifying the polypeptide from the culture.

52. (Newly added) The DNA of claim 45, wherein the nucleic acid sequence is at least 50 nucleotides long and is a segment of a nucleotide sequence consisting of SEQ ID NO:2 or SEQ ID NO:4.
